

WHAT IS CLAIMED IS:

1. A mixing element for mixing a mass formed of a plurality of components, comprising at least one input opening (8; 28) for supplying at least two components into the mixing element (1; 21; 41; 51; 61; 84) at least one output opening (9; 31) for discharging the mixed mass; and at least one flow channel provided between the at least on input opening (8; 28) and the at least one discharge opening (9; 31), wherein a direction of flow of the components to be mixed in the flow channel runs essentially orbitally to a longitudinal axis of the mixing element (1; 21; 41; 51; 61; 84).
2. A mixing element according to Claim 1, wherein the flow channel defines a substantially circular direction of flow within a mixing plane.
3. A mixing element according to Claim 2, wherein a plurality of deflection elements (4.1, 5.1, 6.1, 13; 22.1, 22.2, 22.7, 29; 42.1, 43.1; 55.1, 55.2, 55.3, 55.4, 56; 66, 67) are arranged in the mixing plane for enhancing mixing of the components.

4. A mixing element according to Claim 1, wherein the flow channel is guided over a plurality of mixing planes.
5. A mixing element according to claim 4, wherein the mixing planes are connected in series.
6. A mixing element according to Claim 1, wherein the mixing element (1 ; 21 ; 41 ; 51 ; 61 ; 84) comprises one of a cylindrical and a half-cylindrical body.
7. A mixing element according to Claim 1, wherein the input opening (8 ; 28) and the output opening (9 ; 31) are arranged on one axis (10).
8. A mixing element according to Claim 1, wherein a height (H) of the flow channel is reduced for reducing an inner volume of the mixing element (61).
9. A mixing element according to Claim 8, wherein the height (H) of the flow channel is reduced by a rotary movement of at least one of a base surfaces (62, 63) of the at least one of the cylindrical or half-cylindrical body.

10. A mixing element according to Claim 1, wherein the mixing element (84) is arranged on a fastening plate (82) that can be fastened to a constructional component.
11. A mixing element according to Claim 1, wherein the mixing element (1 ; 21 ; 41 ; 51 ; 61 ; 84) is manufactured of a plastic material.
12. A mixing element according to claim 11, wherein the mixing element (1 ; 21 ; 4 ; 51 ; 61 ; 84) is manufactured by an injection molding process.
13. A mixing element according to claim 3, wherein the deflection elements (4.1, 5.1, 6.1, 13 ; 22.1, 22.2, 22.7, 29 ; 42.1, 43.1 ; 55.1, 55.2, 55.3, 55.4, 56 ; 66, 67) are pivotally arranged in the mixing plane.